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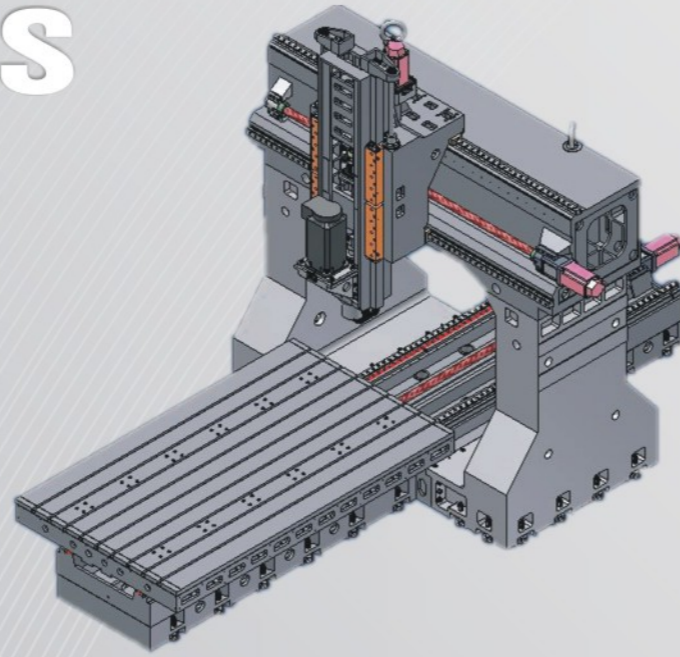


DCM-SERIES

CNC Double Column Machining Center

DCM-SERIES

- Using iron bed structure (HT300). Casting is made of resin sand casting, after tempering and natural aging to eliminate stress and any deformation, providing good rigidity .
- Using FEM design method, with reasonable structure, the machine is consist of strong rigidity, large torque, excellent dynamic, etc.
- X,Y-axis using high-load, high-precision 55 linear roller slide, Z-axis using box way design.
- Z-axis with the balance counterweight system (nitrogen +hydraulic synthesis series), reduces screw weight, reduce heat and improve accuracy and service life; reduce servo motor load, reduce power consumption and reduce temperature rise.



Adjustment Heads



B&C 5C manual adjustment head



45 multipurpose adjustment head



C axis auto adjustment head



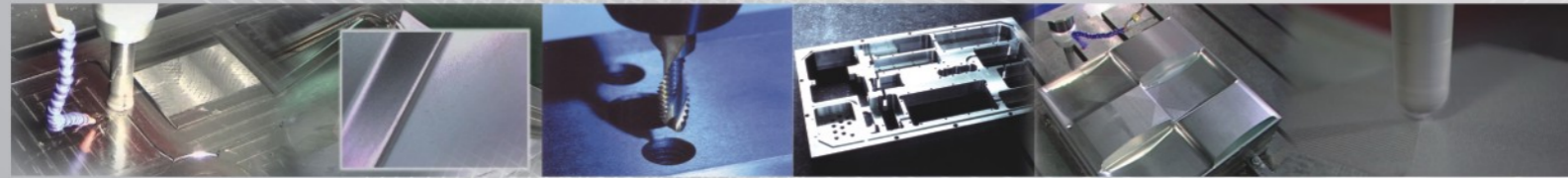
90 manual adjustment head



manual multipurpose adjustment head



extended manual adjustment head



Aerospace industry



Auto Parts Industry

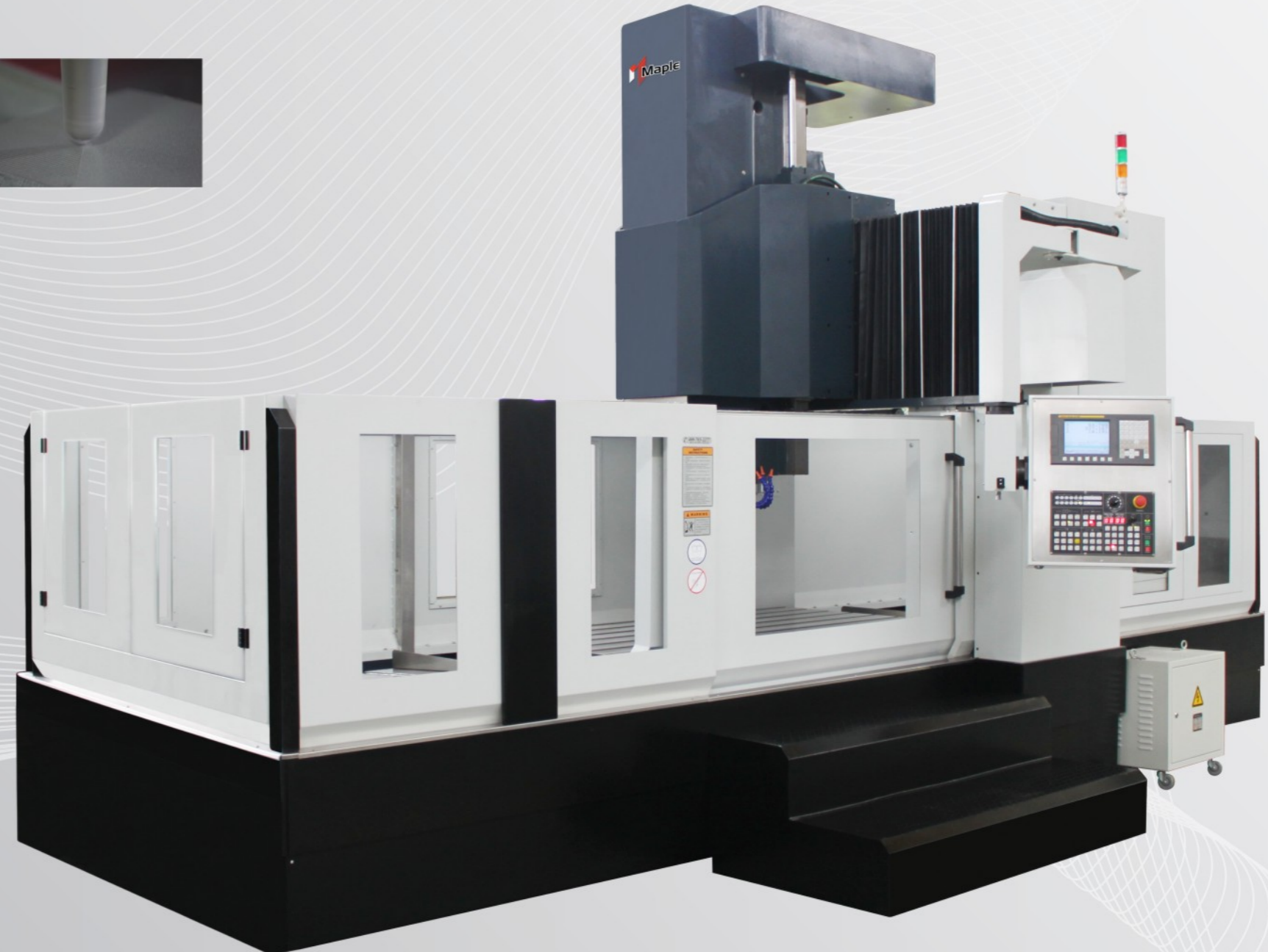
DCM



Mold machining



Milling parts machining



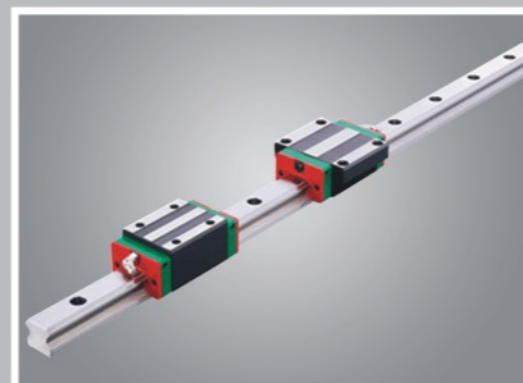
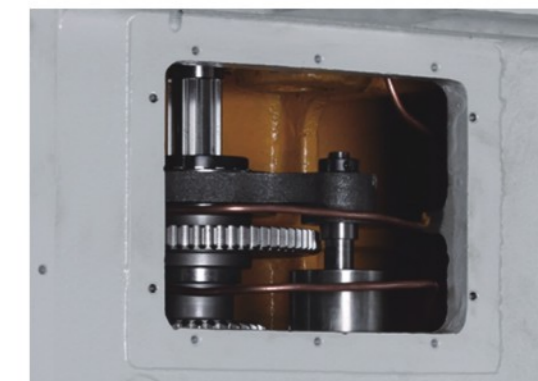


Types of spindles

1. Belt-type (standard)
Belt transmission achieves a better combination between torque and speed.
2. ZF gearbox pulley+ZF double speed gear box (1:1&1:4), achieve low speed, high torque and high-speed high-power.
3. Second gearbox spindle axis provides full gearbox heavy cutting ability, improves torque value by three times.

2-Step gearbox

2-Step gearbox imported high accuracy gear, showing effective transmission efficiency and low operation noise and ability for heavy cutting. 2-Step gearbox can produce two different speeds in high and low switch. Under high speed, contains the speed of high-speed machine. Low speed contains the low-speed gearbox cutting torque.



Roller linear guide way

DCM-series using roller linear guide way, with the goal for high rigidity and overweight load capacity design in mind. The design of the contact Angle of 45° make overall direction of linear guides achieve four direction high rigidity, high load capacity characteristics, can significantly improve processing accuracy, achieve high precision demands; Because the characteristics of heavy load, it can prolong the service life of linear guides.

Controller

Machines made by Maple can be compatible with many different brands of controllers. We know that is a very troublesome thing when customers need to relearn new system, so we offer following controllers to our customers' demand (Siemens, Heidenhain, Mitsubishi, Fanuc, etc).



DCM-SERIES

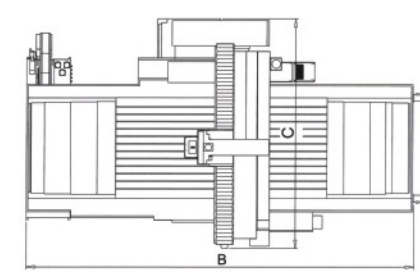
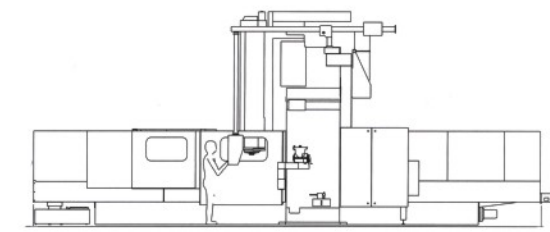
Specification	UNIT	DCM-2013	DCM-2016	DCM-2516	DCM-3016	DCM-3020	DCM-3025	DCM-4016	DCM-4020	DCM-4025	DCM-5025	DCM-5030	DCM-6025	DCM-10030
Worktable														
X-axis travel	MM	2000	2000	2500	3000	3000	3000	4000	4000	4000	5000	5000	6000	10000
Y-axis travel	MM	1400	1500	1500	1500	2000	2500	1500	2000	2500	2500	3000	2500	3000
Z-axis travel	MM	750	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Worktable Size	MM	1000×2000	1350×2100	1350×2600	1350×3100	1800×3100	2250×3200	1350×4100	1800×4100	2250×4200	2250×5200	2800×5200	2250×6200	2800×10200
Door width	MM	1400	1600	1600	1600	2100	2700	1600	2100	2700	2700	3100	2700	3100
Spindle nose to worktable surface	MM	120-870	150-1150	150-1150	150-1150	150-1150	150-1150	150-1150	150-1150	150-1150	150-1150	150-1150	150-1150	150-1150
T-slot	MM	150×22×7	175×22×7	175×22×7	175×22×7	175×22×9	200×28×11	175×22×7	175×22×9	200×28×11	200×28×11	200×28×13	200×28×11	200×28×13
Working range	MM	2000×1300	2000×1500	2500×1500	3000×1500	3000×2000	3000×2500	4000×1500	4000×2000	4000×2500	5000×2500	5000×3000	6000×2500	10000×3000
Spindle														
Spindle modle		BT50×Φ190	BT50×Φ190	BT50×Φ190	BT50×Φ190	BT50×Φ190	BT50×Φ190	BT50×Φ190	BT50×Φ190	BT50×Φ190	BT50×Φ190	BT50×Φ190	BT50×Φ190	BT50×Φ190
Spindle speed	RPM	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000
Spindle motor	KW	15	15	15	22(26)	22(26)	22(26)	22(26)	22(26)	22(26)	22(26)	22(26)	22(26)	22(26)
Spindle drive type		Belt (ZF/Gear)	Belt (ZF/Gear)	Belt (ZF/Gear)	Belt (ZF/Gear)	Belt (ZF/Gear)	Belt (ZF/Gear)	Belt (ZF/Gear)	Belt (ZF/Gear)	Belt (ZF/Gear)	Belt (ZF/Gear)	Belt (ZF/Gear)	Belt (ZF/Gear)	Belt (ZF/Gear)
Three-axis drive type		X、Y、Z-axis 1:1	X、Y-axis Direct1:1 Z-axis 2:1				Y-axis 1:1 X、Z-axis 2:1	Y-axis Direct1:1 X、Z-axis Belt2:1						X-axis Gear
Three-axis (Mitsubishi)	KW	4.5/4.5/4.5	4.5/4.5/4.5	4.5/4.5/4.5	9/4.5/4.5	9/4.5/4.5	9/4.5/4.5	9/4.5/4.5	9/4.5/4.5	9/4.5/4.5	9/4.5/4.5	9/4.5/4.5	9/4.5/4.5	9/4.5/4.5
Three-axis (Fanuc)	KW	3/3/3	3/3/3	3/3/3	9/7/7	9/7/7	9/7/7	9/7/7	9/7/7	9/7/7	9/7/7	9/7/7	9/7/7	9/7/7
Feedrate														
Cutting feedrate	M M/Min	10-6000	10-6000	10-6000	10-6000	10-6000	10-6000	10-6000	10-6000	10-6000	10-6000	10-6000	10-6000	10-6000
Rapid feedrate X/Y/Z	M/Min	8/10/10	15/15/12	15/15/12	15/15/12	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	10/12/12	10/12/12	10/12/12	10/12/12
Accuracy														
Positioning (±)	MM	0.02	0.02	0.02	0.02	0.025	0.025	0.025	0.025	0.025	0.02/1000	0.02/1000	0.02/1000	0.02/1000
Repeatability (±)	MM	0.01	0.01	0.01	0.01	0.015	0.015	0.015	0.015	0.015	0.01/1000	0.01/1000	0.01/1000	0.01/1000
Others														
Air Required	kg/cm ²	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
Power Required	KVA	45	45	45	50	50	50	50	50	50	58	58	58	58
Coolant	HP	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Max weight on Table	T	5	6	7	8	8.5	10	9	10	13	16	17	19	30
Machine weight	T	17	26	26	29	30	42	33	35	44	50	53	57	80

Standard Features

- Air gun
- Transformer
- Maintenance ladder
- Rigid Tapping
- Mitsubishi system
- Spindle coolant
- External Hand wheel
- Explosion-proof fluorescent Light
- Complete Telescoping Covers
- Auto Lubrication System
- Auto power shutoff System
- RS232 Transmission line
- Tool box & files with machine
- LED3 Color Alarm Light
- Air Blast
- Coolant System
- Leveling Bolts and Leveling Blocks
- Heat Exchanger for Cabinet
- Double chip auger system

Optional Features

- Controller(Heidenhain, Siemens, Fanuc)
- Spindle surface can be up 200
- Tool changer(24、32、40、60)
- Auxiliary worktable
- Germany ZF Gear 680N·M
- Spindle speed 6000rpm(Gear type)
- Electric spindle 15000RPM/MIN
- Screw coolant(Three-axis)
- 90 manual adjustment head
- Rotary table and tail
- 45 degree milling head
- Auto tool measuring system
- Auto parts detection system
- CTS
- Scale



DCM-Series	DCM-2013	DCM-2016	DCM-2516	DCM-3016	DCM-3020	DCM-3025	DCM-4016	DCM-4020	DCM-4025	DCM-5025	DCM-5030	DCM-6025	DCM-10030
Size (A Length)	6400mm	7750mm	7810mm	8800mm	8800mm	9000mm	6800mm	6800mm	10800mm	11800mm	11800mm	13800mm	17800mm
Size (B Width)	3340mm	3400mm	3400mm	3400mm	3900mm	4400mm	3900mm	3900mm	4400mm	4400mm	4900mm	4400mm	4900mm
Size (C High)	3280mm	4700mm	4700mm	4700mm	4730mm	4800mm	4700mm	4730mm	4800mm	4800mm	4800mm	4800mm	4800mm